



Woman's Work

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Woman's Work Timeline

Directions: Using the information from the "Woman's Work" chart located at the *Female Frontiers* Web site:

<http://quest.arc.nasa.gov/space/frontiers/activities/womanswork/chart.html>
create a timeline displaying the information. Make sure you illustrate your timeline with appropriate graphics. Also, include the following information:

1. Indicate on the timeline your Grandmother's lifespan.
2. Indicate on the timeline your mother's lifespan.
3. Indicate on the timeline your lifespan.
4. Indicate Commander Collins' lifespan.
(<http://quest.arc.nasa.gov/space/frontiers/activities/collins/ccbioline.html>)
5. Note the year of an achievement for one female aviator. (For example, Jackie Cochran, Nancy Love, Amelia Earhart, Bobbi Trout, Harriet Quimby.)
6. Note the year of an achievement for one groundbreaking female. (For example, Marie Curie's groundbreaking scientific work with uranium.)



Define "Woman's Work"

Group Discussion Activity

Directions: Answer the two questions below using complete sentences.

1. What does our society (adults, the media, etc.) consider "woman's work" to be?

2. What do you believe "woman's work" to be?

Directions: Discuss the answers from the two questions above with the other members of your group. Then as a group agree on an answer for the last question below.

3. Looking into the future, your future, decide what could be considered "woman's work" in the year 2010.

Re-define the Future of "Woman's Work" Group Prediction

Directions: Based upon what you know now about the history of "Woman's Work" according to the Web site chart (<http://quest.arc.nasa.gov/space/frontiers/activities/womanswork/chart.html>), work with your group to predict how each column could be filled in for the next two decades.

category / year	2010	2020
typical employment fields		
new professions opening to women		
average level of education for women		


Re-define the Future of "Woman's Work" Group Prediction Experts' Key

Directions: Based upon what you know now about the history of "Woman's Work" work with your group to predict how each column could be filled in for the next two decades.

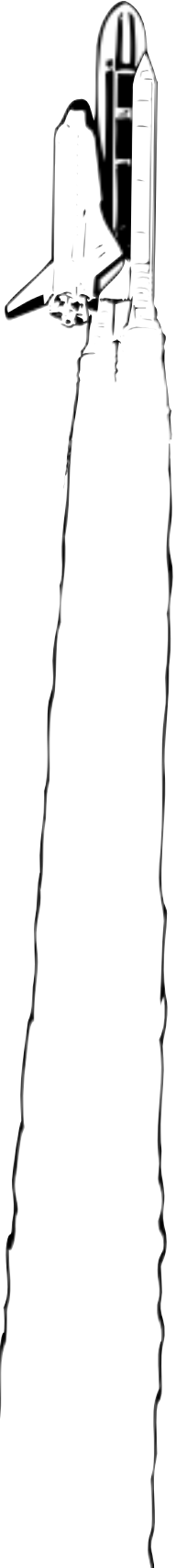
category / year	2010	2020
typical employment fields	<i>mechanics/technicians</i> <i>web designers</i> <i>entrepreneurs</i> <i>local level politicians</i> <i>state judicial branch</i> <i>sports medicine</i> <i>movie directors</i> <i>human resources</i> <i>detectives</i>	<i>upper management</i> <i>commanding offers in military</i> <i>movie / television producers</i> <i>aerospace engineering</i> <i>Plus, those found in the boxes under 2010</i>
new professions opening to women	<i>software engineers</i> <i>forensic medicine</i> <i>financial advisors</i> <i>architecture</i> <i>medical research</i> <i>leadership roles in federal government</i> <i>publishers</i> <i>space medicine</i> <i>environmental sciences</i> <i>partnerships in law</i>	<i>aerospace research</i> <i>executive branch</i> <i>judicial branch at federal level</i> <i>CEO of major corporations</i> <i>high ranking, commanding officers in military</i> <i>Plus, other jobs which have yet to be envisioned.</i>
average level of education for women	<i>Grade 14</i> <i>(A.A. degree from community college)</i>	<i>Grade 16</i> <i>(B.A. degree from 4 year college/university)</i>

Female Aviation Firsts

TIMELINE

- 
- | | | |
|-------------|-----------------------|---|
| 1910 | Bessie Raiche | First woman to fly solo. She flew in an airplane her husband built of bamboo, wire and silk. |
| 1911 | Harriet Quimby | First U.S. woman to receive a pilot's license. |
| 1912 | Harriet Quimby | First woman to fly solo across the English Channel. |
| 1913 | Ruth Bancroft Law | First woman to fly at night. |
| 1914 | Katherine Stinson | First woman to fly a loop (Cicero Field, Chicago, IL). |
| 1917 | Katherine Stinson | Set flight endurance record of 9 hours and 10 minutes. |
| 1918 | Anna Low | First Chinese-American, female aviator who flew in the San Francisco, CA region. |
| 1921 | Bessie Coleman | First African-American female aviator to qualify for an international pilot's license from the Federation Aeronautique Internationale. |
| 1924 | Ruth Nichols | First woman to earn an international hydroplane license. |
| 1929 | Ninety-Nines | Women pilots form this female aviators club with Amelia Earhart as president. The name comes from the fact that out of 126 female licensed pilots, 99 of them joined. |
| 1929 | Elinor Smith | Sets solo flight endurance record of 13 hours and 16 minutes. |
| 1929 | Bobbi Trout | First woman to fly all night. |
| 1930 | Florence Klingensmith | First woman to set loop record for 143 consecutive loops. |
| 1931 | Anne Morrow Lindberg | First woman to earn a glider pilot's license. |

Female Aviation Firsts ***TIMELINE***



1932	Olive Beech	Helps to found, with her husband, Beech Aircraft Corporation.
1932	Kathryn Cheung	First Chinese-American female to earn a U.S. pilot's license.
1932	Amelia Earhart	First woman to fly solo across the Atlantic Ocean (in just under 15 hours).
1932	Ruth Nichols	First woman hired as a pilot for commercial passenger flights, on New York Airways.
1936	Louise Thaden, pilot Blanche Noyes, co-pilot	First women to win the Bendix Transcontinental Air Race from Los Angeles, CA to New York City, New York.
1937	Willa Brown	First African-American woman to earn a commercial pilot's license.
1938	Hanna Reitsch	German WWII test pilot who was the first woman to pilot a helicopter.
1943	Women Airforce Service Pilots (WASP)	The government program in which female pilots were used to train the male pilots for combat duty. The U.S. female pilots also ferried airplanes across the Atlantic Ocean for use in combat.
1944	Ann Baumgartner	First U.S. woman to fly an experimental jet airplane. She reached speeds of 350 mph and altitudes up to 35,000 feet.
1947	Ann Shaw Carter	First U.S. woman licensed to fly a helicopter.
1953	Jacqueline Cochran	First woman to break the sound barrier.
1955	Whirley Girls	Female helicopter pilots start their own association.
1960	Jerrie Cobb	First woman to undergo the testing developed for the selection of the Mercury Astronauts.

Female Aviation Firsts

TIMELINE




- | | | |
|-------------|-----------------------------------|---|
| 1961 | Jacqueline Cochran | First woman to fly the highest to an altitude of 55,253 feet. |
| 1961 | Jacqueline Cochran | Established a new altitude record for the T-38 aircraft by flying 56,071 feet. |
| 1964 | Jerrie Mock | First woman to fly solo around the world. She made the flight in 29 1/2 days flying 22,860 miles. |
| 1973 | Emily Howell | As second officer for Frontier Airlines, she flies Boeing 737 jets. She is the first woman to do so for a regularly scheduled airline. |
| 1973 | Bonnie Tiburzi | First female jet pilot hired by a major airline, American Airlines. |
| 1984 | Betsy Carroll | First woman to fly a jumbo jet across the Atlantic Ocean for a commercial airline (People Express). |
| 1986 | Jeanne Yeager
(and Dick Rutan) | First pilots to fly around the world non-stop and non-refueled. They accomplished this in a specially designed aircraft called the Voyager. |
| 1990 | Jean K. Tinsley | First female to fly a tilt rotor aircraft. |
| 1995 | Eileen M. Collins | First female to pilot U.S. space shuttle. |
| 1999 | Eileen M. Collins | First female U.S. space shuttle commander. |

Female Aviation Firsts

Timeline Search: Name the Year


Directions: Read each clue carefully, then check the Female Aviation Firsts' timeline (located on the Web site *Female Frontiers*, <http://quest.arc.nasa.gov/space/frontiers/activities/womanswork/firststimeline/firsts.html>) to help you find what year the event happened.

- 
- _____ 1. A solo flight endurance record of 13 hours and 16 minutes was set in this year.
 - _____ 2. Bobbi Trout flew all night one night in this year.
 - _____ 3. This was the year that a female pilot and co-pilot team won the Bendix Transcontinental Air Race from L.A to N.Y.
 - _____ 4. Cochran flew to an altitude of 55,253 feet for a new flight height in this year.
 - _____ 5. A female pilot flew a jumbo jet across the Atlantic Ocean on a commercial flight in this year.
 - _____ 6. Tinsley was the first female pilot to fly a tilt rotor aircraft in this year.
 - _____ 7. An international hydroplane license was granted to Ruth Nichols in this year.
 - _____ 8. A record for flying 143 consecutive loops was set in this year.
 - _____ 9. The first woman to fly a helicopter did so in what year?
 - _____ 10. The first solo flight by a woman happened in this year.
 - _____ 11. Anne Morrow Lindberg was the first woman to earn her glider pilot's license in this year.

Female Aviation Firsts

Timeline Search: Name the Year - KEY


Directions: Read each clue carefully, then check the Female Aviation Firsts' timeline (located on the Web site *Female Frontiers*, <http://quest.arc.nasa.gov/space/frontiers/activities/womanswork/firststimeline/firsts.html>) to help you find what year the event happened.

- 
- 1929 1. A solo flight endurance record of 13 hours and 16 minutes was set in this year.
- 1929 2. Bobbi Trout flew all night one night in this year.
- 1936 3. This was the year that a female pilot and co-pilot team won the Bendix Transcontinental Air Race from L.A to N.Y.
- 1961 4. Cochran flew to an altitude of 55,253 feet for a new flight height in this year.
- 1984 5. A female pilot flew a jumbo jet across the Atlantic Ocean on a commercial flight in this year.
- 1990 6. Tinsley was the first female pilot to fly a tilt rotor aircraft in this year.
- 1924 7. An international hydroplane license was granted to Ruth Nichols in this year.
- 1930 8. A record for flying 143 consecutive loops was set in this year.
- 1938 9. The first woman to fly a helicopter did so in what year?
- 1910 10. The first solo flight by a woman happened in this year.
- 1931 11. Anne Morrow Lindberg was the first woman to earn her glider pilot's license in this year.

Female Aviation Firsts

Timeline Search: Name the Woman


Directions: Read each clue carefully, then check the Female Aviation Firsts' timeline (located on the Web site *Female Frontiers*, <http://quest.arc.nasa.gov/space/frontiers/activities/womanswork/firststimeline/firsts.html>) to help you find the woman who accomplished the feat.

- 
- _____ 1. She was the first woman to solo across the English Channel.
 - _____ 2. She was the first woman to pilot a space shuttle.
 - _____ 3. She and another pilot were the firsts to fly around the world non-stop and non-refueled.
 - _____ 4. She was the first woman to fly a loop maneuver.
 - _____ 5. She was the first U.S. woman to fly an experimental jet.
 - _____ 6. She was the first Chinese-American to pilot an airplane.
 - _____ 7. She was the first woman to fly solo around the world.
 - _____ 8. She helps to found the Beech Aircraft Corporation.
 - _____ 9. She is the first African-American female aviator to earn an international pilot's license.
 - _____ 10. She flew faster than the speed of sound in 1953.
 - _____ 11. She was the first U.S. female licensed to fly helicopters.
 - _____ 12. In 1913, she was the first woman to fly at night.

Female Aviation Firsts

Timeline Search: Name the Woman - KEY

Directions: Read each clue carefully, then check the Female Aviation Firsts' timeline (located on the Web site *Female Frontiers*, <http://quest.arc.nasa.gov/space/frontiers/activities/womanswork/firststimeline/firsts.html>) to help you find the woman who accomplished the feat.

- 
- Quimby 1. She was the first woman to solo across the English Channel.
- Collins 2. She was the first woman to pilot a space shuttle.
- Yeager 3. She and another pilot were the firsts to fly around the world non-stop and non-refueled.
- Stinson 4. She was the first woman to fly a loop maneuver.
- Baumgartner 5. She was the first U.S. woman to fly an experimental jet.
- Low 6. She was the first Chinese-American to pilot an airplane.
- Mock 7. She was the first woman to fly solo around the world.
- Beech 8. She helps to found the Beech Aircraft Corporation.
- Coleman 9. She is the first African-American female aviator to earn an international pilot's license.
- Cochran 10. She flew faster than the speed of sound in 1953.
- Carter 11. She was the first U.S. female licensed to fly helicopters.
- Law 12. In 1913, she was the first woman to fly at night.

Frontiers Women Word Search



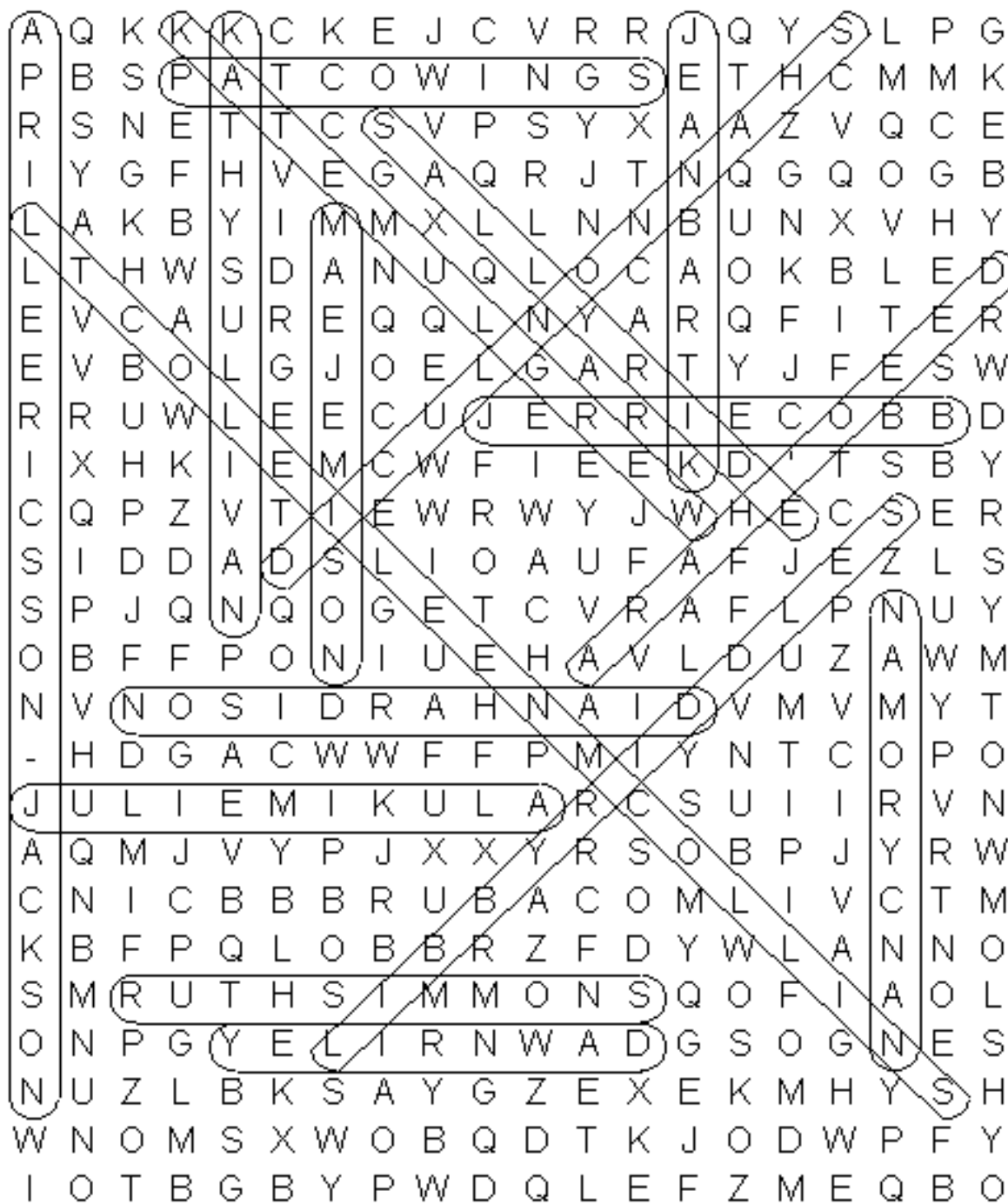
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 P B S P A T C O W I N G S E T H C M M K
 R S N E T T C S V P S Y X A A Z V Q C E
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 L A K B Y I M M X L L N N B U N X V H Y
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 I O T B G B Y P W D Q L E F Z M E Q B O

Aprille Ericsson-Jackson
 Dawn Riley
 Dee O'Hara
 Dian Hardison
 Jean Bartik
 Jerrie Cobb
 Julie Mikula
 Kate Mulgrew
 Kathy Sullivan

Libby Riddles
 Lt Col Eileen M Collins
 Mae Jemison
 Nancy Roman
 Pat Cowings
 Ruth Simmons
 Sally Ride
 Shannon Lucid

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Frontiers Women Word Search - Key



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